

# Converting Colors

XYZ(19.4837, 8.9547, 50.1361)

Have a look what the booklet for  
XYZ(19.4837, 8.9547, 50.1361)  
contains.

<b>XYZ(19.3956, 8.9125, 49.9882)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(19.3956, 8.9125,  
49.9882)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8700BF
RGB	135, 0, 191
RGB Percent	53%, 0%, 75%
CMY	0.4706, 1.0000, 0.2510
CMYK	0.29, 1.00, 0.00, 0.25
HSL	282°, 100%, 37%
HSV	282°, 100%, 75%
XYZ	19.3956, 8.9125, 49.9882
YIQ	62.1390, 19.1490, 88.0210

# Conversions

## Conversions Part 2

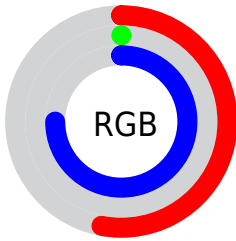
<b>Format</b>	<b>Color</b>
<b>RYB</b>	135, 0, 191
Decimal	8847551
CIELab	35.82, 71.03, -64.95
CIElCh	36, 96.247, 317.558
Yxy	8.9125, 0.2477, 0.1138
Android (android.graphics.Color)	4287037631 (0xFF8700BF)
YUV	62.1390, 63.5285, 63.8991
Hunter-Lab	29.8538, 63.7248, -78.3795

# Details

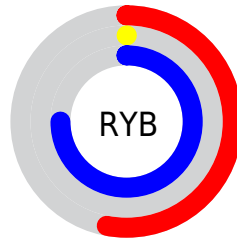
The XYZ color **19.3956, 8.9125, 49.9882** is a dark color, and the websafe version is hex **9900CC**. A complement of this color would be **20.2620, 38.1026, 6.2868**, and the grayscale version is **4.5088, 4.7436, 5.1658**.

A 20% lighter version of the original color is **41.9158, 23.6954, 91.1714**, and **7.5045, 3.3554, 23.5447** is the 20% darker color. If you saturate the color by 10%, you get **19.3957, 8.9125, 49.9884**, and if you desaturate by 10%, it is **20.5556, 9.8588, 50.1099**.

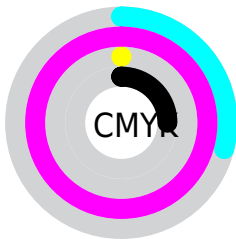
# Distribution



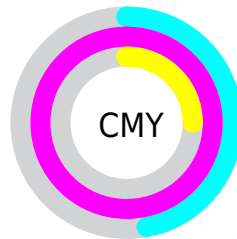
- Red (53%)
- Green (0%)
- Blue (75%)



- Red (53%)
- Yellow (0%)
- Blue (75%)



- Cyan (29%)
- Magenta (100%)
- Yellow (0%)
- Black (25%)



- Cyan (47%)
- Magenta (100%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.3956, 8.9125, 49.9882 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 19.3956, 8.9125, 49.9882 by changing the saturation by 10% instead.



■ 19.3956, 8.9125,  
49.9882

■ 19.3956, 8.9125,  
49.9882

241.5205,  
182.7238, 403.3535

■ 12.0622, 4.6842,  
35.0329

■ 41.9132, 23.7288,  
91.5535

■ 6.8585, 2.0632,  
23.4045

■ 57.8282, 35.0856,  
119.0006

■ 3.4193, 0.6438,  
14.6843

■ 77.3343, 49.5874,  
151.4487

■ 1.3792, 0.0000,  
8.4540

■ 100.7970, 67.6184,  
189.3164

■ 0.2413, 0.0000,  
4.2949

■ 128.5816, 89.5632,  
233.0222

■ 0.0000, 0.0000,  
1.7885

■ 161.0535,

■ 0.0000, 0.0000,

115.8061, 282.9846

0.4203

198.5780,  
146.7315, 339.6222

0.0000, 0.0000,  
0.0000

19.3956, 8.9125,  
49.9882

19.3956, 8.9125,  
49.9882

19.3957, 8.9125,  
49.9884

20.5556, 9.8588,  
50.1099

21.9937, 11.2906,  
50.3105

23.7942, 13.3745,  
50.6178

25.9997, 16.1952,  
51.0460

28.6466, 19.8242,  
51.6070

■ 31.7668, 24.3245,  
52.3112

■ 35.3891, 29.7526,  
53.1680

■ 39.5399, 36.1602,  
54.1860

■ 44.2434, 43.5953,  
55.3732

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



12.2230, 8.9125, 80.8395



19.3956, 8.9125, 49.9882



24.2972, 8.9125, 18.1514

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



19.3956, 8.9125, 49.9882



11.0564, 8.9125, 0.0000



1.7321, 8.9125, 22.5745

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



19.3956, 8.9125, 49.9882



20.2620, 38.1026, 6.2868

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



1.6458, 8.9125, 4.3939



19.3956, 8.9125, 49.9882



5.5781, 8.9125, 0.0000

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



19.3956, 8.9125, 49.9882



18.2193, 8.9125, 0.0000



2.6869, 8.9125, 0.0000



3.0214, 8.9125, 56.1291



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



19.3956, 8.9125, 49.9882



24.6258, 8.9125, 6.1357



2.6869, 8.9125, 0.0000



1.5920, 8.9125, 14.4420

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



19.3961, 8.9128, 49.9884



63.0507, 52.7829, 95.1441



10.8823, 6.7181, 50.0135



13.2166, 10.6412, 20.7427



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



19.3961, 8.9128, 49.9884



34.4834, 15.8312, 89.5174



27.2194, 13.3699, 31.1971



9.6501, 9.5520, 12.0073



12.8300, 5.9002, 32.8555



0.5648, 0.2632, 1.2899



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.1999, 11.3621, 4.7649



39.6681, 20.3126, 8.0504



18.9841, 37.4030, 8.0700



9.6422, 9.5812, 10.5046



14.6204, 7.4793, 3.2945



0.6023, 0.3048, 0.2847



# Previews

## White Background



This preview shows how the XYZ color 19.3956, 8.9125, 49.9882 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

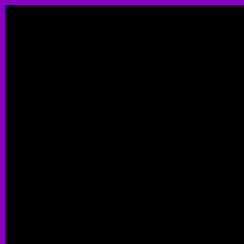
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.3956, 8.9125, 49.9882**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.3956, 8.9125, 49.9882.



This preview shows how white text looks on a background with the XYZ color 19.3956, 8.9125,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

19.3956, 8.9125, 49.9882

### Protanopia

11.0068, 9.4752, 42.3231

### Deuteranopia

9.3221, 9.4447, 31.4687



## Tritanopia

11.1665, 9.3243, 8.8007

# Trichromacy



## Original Color

19.3956, 8.9125, 49.9882



## Protanomaly

10.8802, 6.5354, 44.4041



## Deuteranomaly

9.7048, 6.3692, 37.2771



## Tritanomaly

12.6155, 7.6809, 18.5870

# Monochromacy



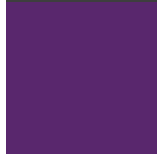
## Original Color

19.3956, 8.9125, 49.9882



## Achromatopsia

4.5787, 4.8172, 5.2459



## Achromatomaly

7.6057, 4.6790, 14.9703

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.3956, 8.9125, 49.9882 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(135, 0, 191)` looks like.

```
.text, #text, p{  
    color:rgb(135, 0, 191)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(135, 0, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 0, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 19.3956, 8.9125, 49.9882 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(135, 0, 191) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(135, 0, 191) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(135, 0, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 0, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 0, 191);  
box-shadow:4px 4px 4px 4px rgb(135, 0,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.3956, 8.9125, 49.9882 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 0, 191) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(135, 0,  
191) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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